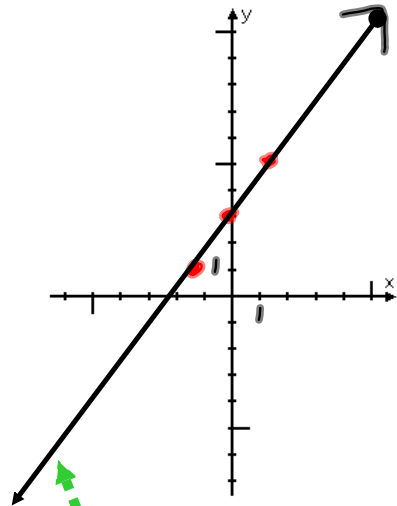


- Graph $y = 2x + 3$

x	y
0	3
1	5
-1	1



Graph the equation: $y = -3x + 5$

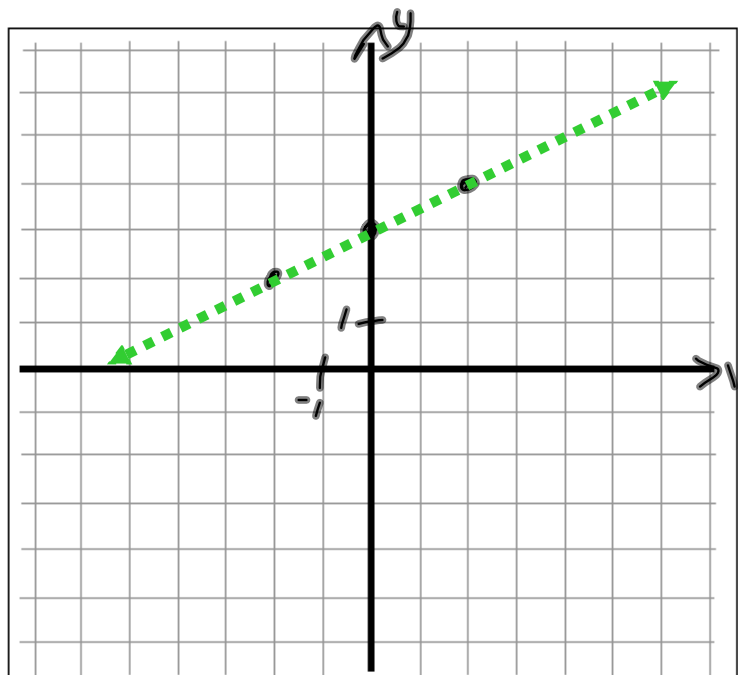
x	y
0	5
1	2
2	-1



Develop a table of values for the equation $y = .5x + 3$ and use your points to draw the graph

$$y = \frac{1}{2}x + 3$$

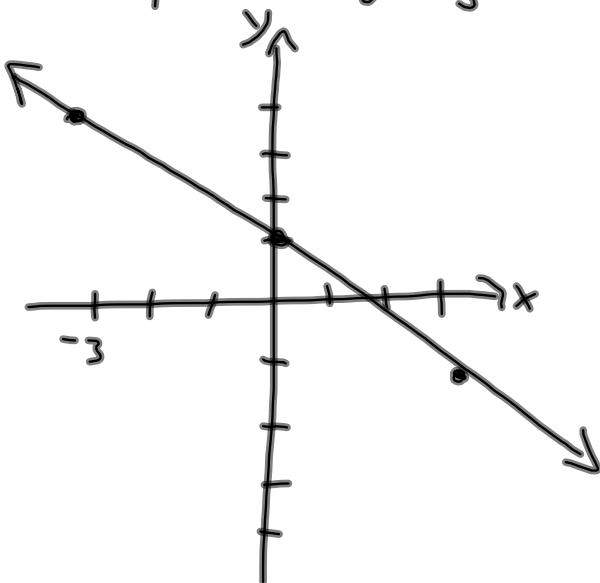
x	y
0	3
-2	2
2	4



Graph each of the following:

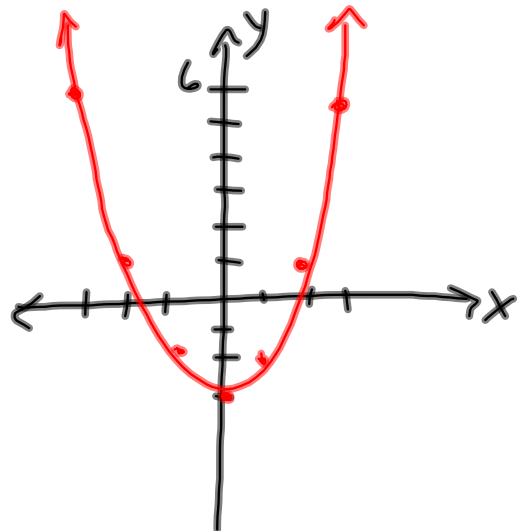
$$y = -\frac{2}{3}x + 1$$

x	y
0	1 $\Rightarrow y = -\frac{2}{3}(0) + 1$
3	-1 $\Rightarrow y = -\frac{2}{3}(3) + 1$
-3	3 $\Rightarrow y = -\frac{2}{3}(-3) + 1$



$$y = x^2 - 3 \quad (\text{use 7 points})$$

x	y
3	6
2	1
1	-2
0	-3
-1	-2
-2	1
-3	6



Now try sketching each of the following:

$$6x - 3y = 12$$

$$3x + 4y + 1 = 0$$

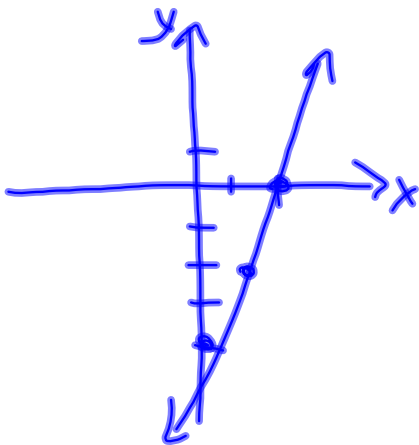
What do you think would be a good first step to get these sketches started?

Isolate for "y="

$$\frac{-3y}{-3} = \frac{-6x + 12}{-3}$$

$$y = 2x - 4$$

x	y
0	-4
2	0
1	-2

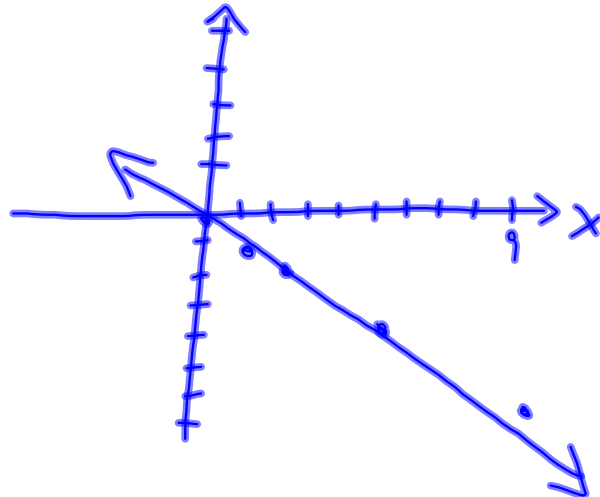


$$\frac{4y}{4} = \frac{-3x - 1}{4}$$

$$y = -\frac{3}{4}x - \frac{1}{4}$$

x	y
0	$-\frac{1}{4}$
2	$-\frac{7}{4}$

x	y
1	-1
5	-4
9	-7



Cost for a banquet: \$550 for hall plus \$15 per person

- a) Write the equation to describe the scenario
- b) How much money for 30 people to go?
- c) How many people could go for \$1300

C - Cost
 n - # of people

(a) $C = 15n + 550$ b) $C = 15(30) + 550$

$= \$1000$

(c) $1300 = 15n + 550$

$$\frac{1300 - 550}{15} = \frac{15n}{15}$$

$n = 50$

To rent a cottage: \$95 per night for 2 people plus \$10 per additional person

a) Write the equation to describe the scenario

b) How much money for 10 people to go?

c) How many people could go for \$135

C - Cost
 n → # of people in excess of 2

a) $C = 95 + 10n$

b) $C = 95 + 10(8)$
 $C = \underline{\$175}$

c) $135 = 95 + 10n$
 $40 = 10n$
 $4 = n$

∴ 6 people



Text messaging plan: \$10 for 1000 messages plus \$0.15 for every message over that

- a) Write the equation to describe the scenario
- b) How much money for 1500 text messages?
- c) How many text messages for a bill of \$42.25

a) $C = 10 + 0.15n$

b) $C = 10 + 0.15(500)$
 $C = \underline{\$85.00}$

c) $42.25 = 10 + 0.15n$
 $\frac{32.25}{0.15} = \frac{0.15n}{0.15}$
 $n = 215$

1215 Texts

$n \rightarrow$ # of Messages
beyond 1000

Practice Problems...

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#3, 4, 5, 6, 10, 11, 14, 16, 19,